

SPA 1 – WRF CENTRIFUGE and WAS PIPE LINE INSTALLATION PROJECT

Pre Submittal Meeting
~~November 04, 2014~~
June 30, 2015



Project Lifecycle



*"Alone we can do so little; together we can do so much."
- Helen Keller*

CITY OF SURPRISE PUBLIC WORKS DEPARTMENT CAPITAL IMPROVEMENT PROGRAM

INITIATE

- Project Charter
- Concept Proposal
- Form Team
- Identify Stakeholders
- Identify Funding
- Estimate Time
- Estimate Cost
- CIP Budgeting Process
- Asset Analysis

PLAN

- Develop Scope
- Develop Schedule
- Develop Budget
- Engage Stakeholders
- Secure Funding
- Procurement Prep.
- Agency Coordination
- Utility Coordination
- Identify Risks
- Developer Coordination

EXECUTE

- Council Presentations
- Procurement (RFB) (RFQ)
- Permitting
- Agency Agreements
- Recommend Changes
- Stakeholder Communication and Outreach
- Contract Development

MONITOR

- Scope Verification
- Report Performance
- Consultant Management
- Contractor Management
- Facilitate Conflict Resolution
- Coordinate Inspections
- Time/Cost Management
- Contract Management

CLOSEOUT

- Ensure work is complete to contract requirements
- Acceptance of Final Product
- Permit Closeout
- Record Documents
- Operation and Maint. Documentation
- Training
- Financial Closeout
- Catalog Asset
- Turnover to Stakeholder



Harry Hartman
Manager

Suneel Garg
Civil Engineer

Fred Stevens
Project Manager

Michael Boule
Project Manager

Tom McCullough
Project Manager

Project Statement

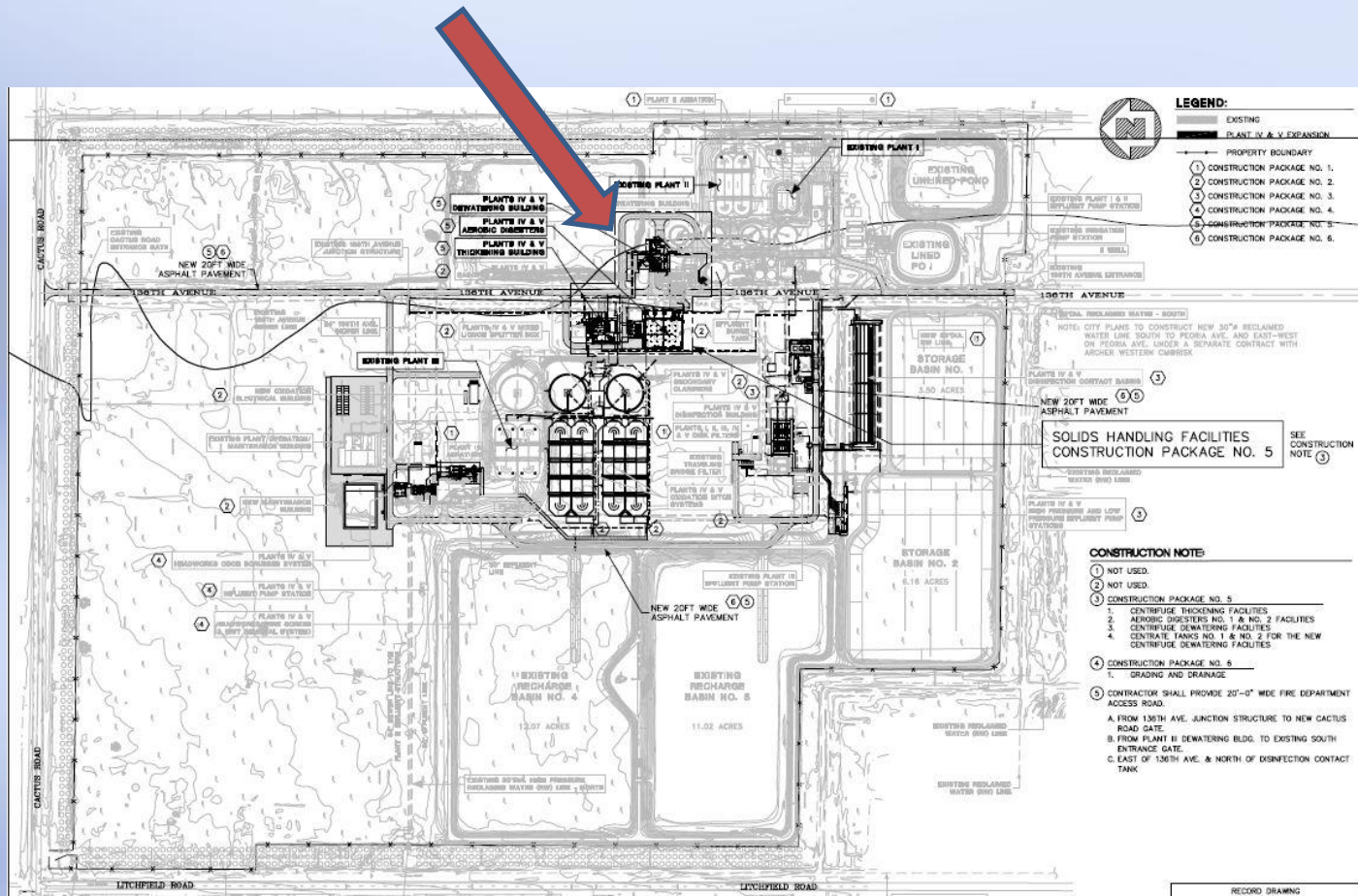


COS 15-021, CIP 21412/21522

The purpose of this Capital Improvement Project is to optimize the solids handling capability at the SPA1 WRF by installing an additional centrifuge and conveyor assembly system in the dewatering facility. In addition, this project will provide protection for a portion of the WAS piping network by creating a new routing scheme and installing new meters and pipe.

Project Location





Project Description



The City is looking to optimize the solids handling operation at the SPA1 WRF by installing an additional (2nd) centrifuge and conveyor assembly in the dewatering facility and protecting portions of its WAS piping network by creating a new routing scheme and installing new meters and pipe. The meter reading will have a local display and be integrated into the Wastewater Supervisory Control and Data Acquisition (SCADA) system.

Roles & Responsibilities



Client Project Team

The City of Surprise Mayor and City Council collectively are the project clients and, as such, authorize all project budgets and capital expenditures. The CIP Project Manager will lead a stakeholder team that includes representatives from:

- Water Resource Management
- Public Works
- Other City Departments (as required)

Budget

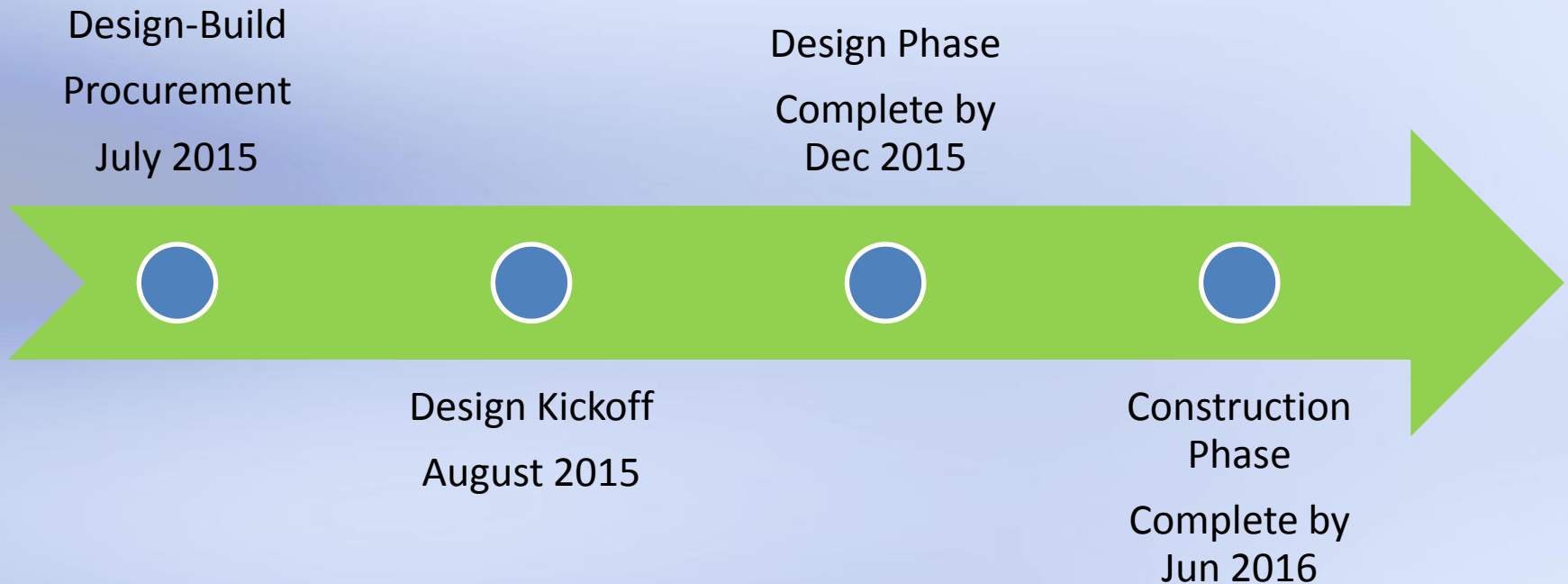


FY15- \$1,500,0000 (2nd Centrifuge)

FY15- \$400,000 (Line Installation)

Total:\$1,900,000 (Programmed for this
current 2016 fiscal year)

Tentative Project Schedule



*Completion Dates

Project Scope



The scope of work will be divided into two phases

PHASE I

Task #1 – Review of As-builts and Existing Conditions

Task #2 – Detailed Design

Task #3- Centrifuge and Dewatered Sludge Conveying System Installation

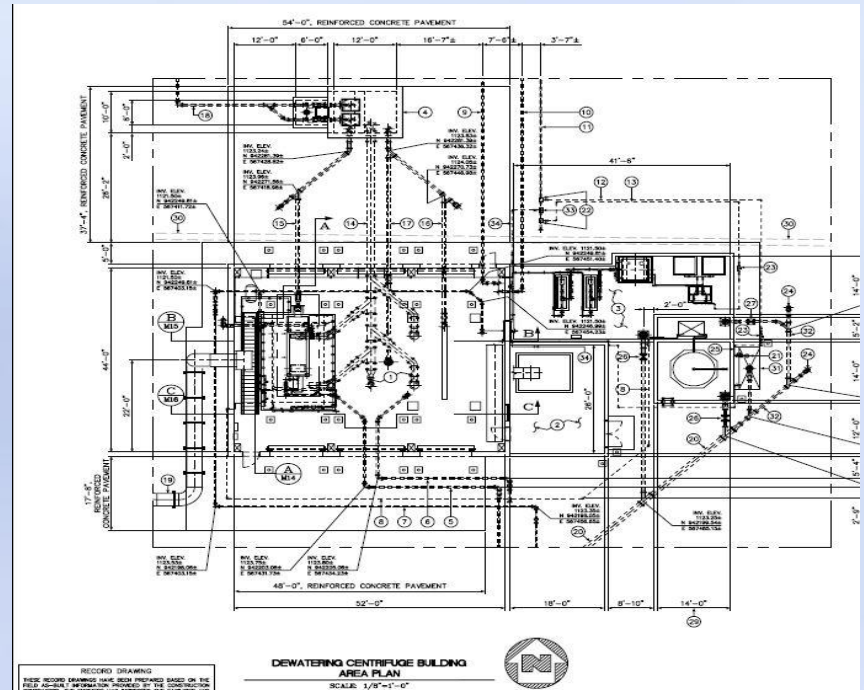
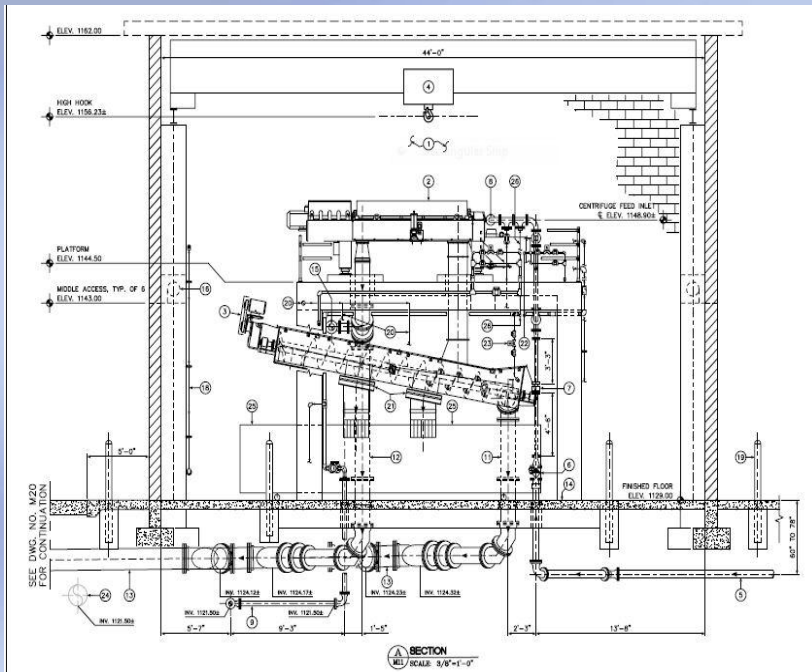
Chemical Lines

The Design-Build Firm will design and install a polymer feed line from building #16 to the polymer feed lines to centrifuge #3/4.

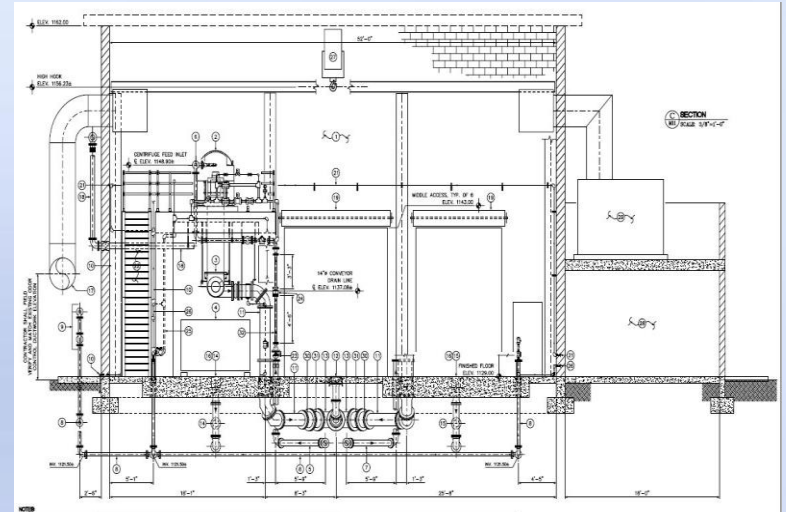
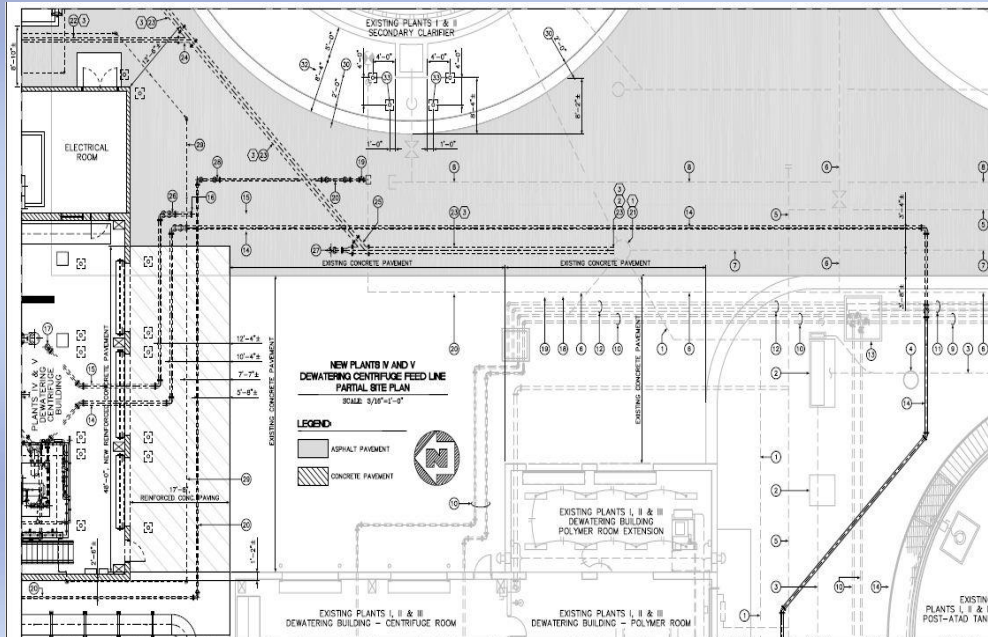
Task #4- Performance Testing

Task #5- Record Drawings

Project Scope – Phase I



Project Scope – Phase I



PHASE II

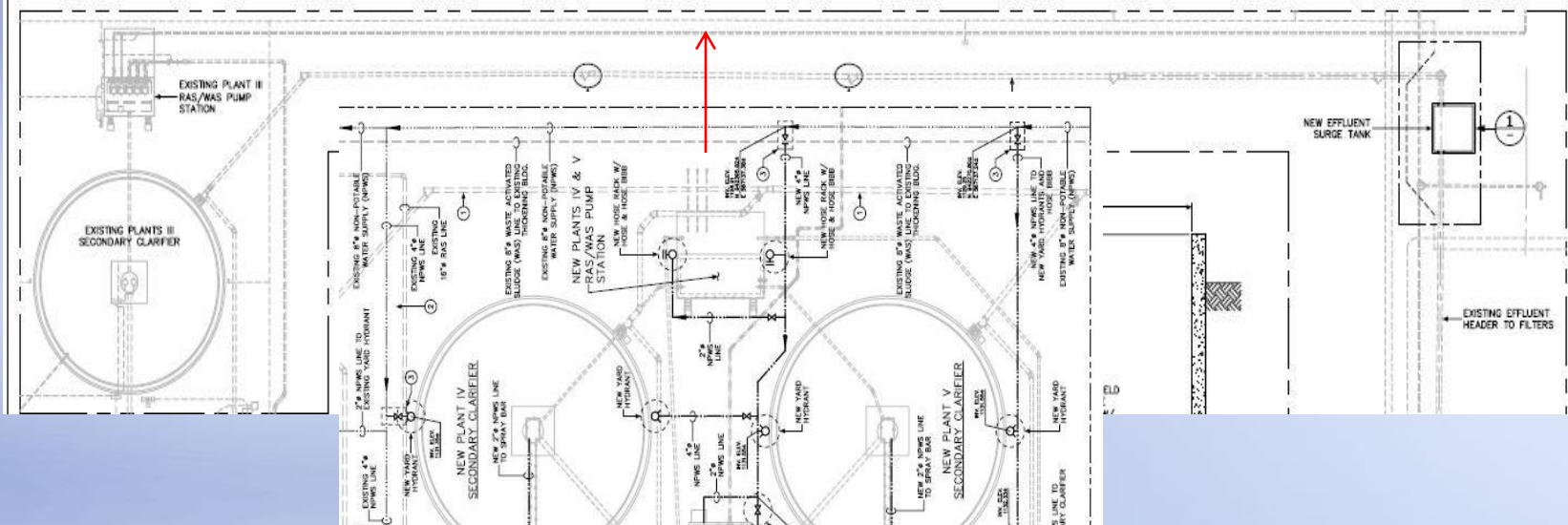
**Task #6 – Review of As-builts and Locating Existing Piping
Pipe and meter installation area 1**

Task #8- Pipe and meter installation area 2

Task #9 - Program the meter reading in SCADA

Task #10 - HDPE Pipe removal and disposal

Task #11 - Record Drawings



Critical Path Tasks



Purchase of Screw Conveyor